S Ranil Wickramasinghe

List of Publications by Year
in descending order

98 papers	3,726 citations	126708 33 h-index	138251 58 g-index
99 all docs	99 docs citations	99 times ranked	3791 citing authors

#	Article	IF	Citations
1	Stimuli-responsive membranes. Journal of Membrane Science, 2010, 357, 6-35.	4.1	383
2	Produced water treatment by nanofiltration and reverse osmosis membranes. Journal of Membrane Science, 2008, 322, 162-170.	4.1	361
3	Effects of Salt on the Lower Critical Solution Temperature of Poly (N-Isopropylacrylamide). Journal of Physical Chemistry B, 2010, 114, 16594-16604.	1.2	240
4	Modification and characterization of ultrafiltration membranes for treatment of produced water. Journal of Membrane Science, 2011, 373, 178-188.	4.1	113
5	Recent developments in porous ceramic membranes for wastewater treatment and desalination: A review. Journal of Environmental Management, 2021, 293, 112925.	3.8	85
6	Synthesis of graphene oxide/polyacrylamide composite membranes for organic dyes/water separation in water purification. Journal of Materials Science, 2019, 54, 252-264.	1.7	84
7	Understanding virus filtration membrane performance. Journal of Membrane Science, 2010, 365, 160-169.	4.1	82
8	Designing magnetic field responsive nanofiltration membranes. Journal of Membrane Science, 2013, 430, 70-78.	4.1	79
9	Graphene-induced tuning of the d-spacing of graphene oxide composite nanofiltration membranes for frictionless capillary action-induced enhancement of water permeability. Journal of Materials Chemistry A, 2018, 6, 19445-19454.	5.2	79
10	Combined electrocoagulation and membrane distillation for treating high salinity produced waters. Journal of Membrane Science, 2018, 564, 82-96.	4.1	79
11	Zwitterion augmented polyamide membrane for improved forward osmosis performance with significant antifouling characteristics. Separation and Purification Technology, 2019, 212, 316-325.	3.9	78
12	Aluminum electrocoagulation followed by forward osmosis for treating hydraulic fracturing produced waters. Desalination, 2018, 428, 172-181.	4.0	73
13	Chemical modification of membrane surface â€" overview. Current Opinion in Chemical Engineering, 2018, 20, 13-18.	3.8	73
14	Magnetically Activated Micromixers for Separation Membranes. Langmuir, 2011, 27, 5574-5581.	1.6	70
15	Membrane extraction for removal of acetic acid from biomass hydrolysates. Journal of Membrane Science, 2008, 322, 189-195.	4.1	66
16	Responsive membranes for advanced separations. Current Opinion in Chemical Engineering, 2015, 8, 98-104.	3.8	65
17	Integrated electrocoagulation â€" Forward osmosis â€" Membrane distillation for sustainable water recovery from hydraulic fracturing produced water. Journal of Membrane Science, 2019, 574, 325-337.	4.1	62
18	Zwitterionic forward osmosis membrane modified by fast second interfacial polymerization with enhanced antifouling and antimicrobial properties for produced water pretreatment. Desalination, 2019, 469, 114090.	4.0	61

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19	pH-responsive nanofiltration membranes by surface modification. Journal of Membrane Science, 2011, 366, 373-381.	4.1	58
20	Process intensification with selected membrane processes. Chemical Engineering and Processing: Process Intensification, 2015, 87, 16-25.	1.8	57
21	Concentrations of polyphenols from blueberry pomace extract using nanofiltration. Food and Bioproducts Processing, 2017, 106, 91-101.	1.8	53
22	Electrocoagulation followed by ultrafiltration for treating poultry processing wastewater. Journal of Environmental Chemical Engineering, 2018, 6, 4937-4944.	3.3	49
23	Pi electron cloud mediated separation of aromatics using supported ionic liquid (SIL) membrane having antibacterial activity. Journal of Membrane Science, 2018, 556, 1-11.	4.1	47
24	Mixed-matrix membranes for efficient ammonium removal from wastewaters. Journal of Membrane Science, 2017, 526, 147-155.	4.1	45
25	Membrane chromatography for protein purifications from ligand design to functionalization. Separation Science and Technology, 2017, 52, 299-319.	1.3	43
26	Interplay among membrane properties, protein properties and operating conditions on protein fouling during normal-flow microfiltration. Journal of Membrane Science, 2009, 332, 93-103.	4.1	41
27	Combined electrocoagulation-microfiltration-membrane distillation for treatment of hydraulic fracturing produced water. Desalination, 2021, 500, 114886.	4.0	41
28	Specificity in Cationic Interaction with Poly(N-isopropylacrylamide). Journal of Physical Chemistry B, 2013, 117, 5090-5101.	1.2	40
29	Zwitterionic Polymer Brush Grafted on Polyvinylidene Difluoride Membrane Promoting Enhanced Ultrafiltration Performance with Augmented Antifouling Property. Polymers, 2020, 12, 1303.	2.0	38
30	Toward remote-controlled valve functions via magnetically responsive capillary pore membranes. Journal of Membrane Science, 2012, 423-424, 257-266.	4.1	36
31	Poly(ionic liquid) augmented membranes for Ï€ electron induced separation/fractionation of aromatics. Journal of Membrane Science, 2019, 579, 102-110.	4.1	36
32	Modification of Nanofiltration Membranes by Surface-Initiated Atom Transfer Radical Polymerization for Produced Water Filtration. Separation Science and Technology, 2009, 44, 3346-3368.	1.3	34
33	pH Responsive Nanofiltration Membranes for Sugar Separations. Industrial & Engineering Chemistry Research, 2013, 52, 9259-9269.	1.8	33
34	Surface modification of PVDF membranes for treating produced waters by direct contact membrane distillation. Separation and Purification Technology, 2019, 224, 388-396.	3.9	33
35	Surface Modification of PVDF Membranes for Treating Produced Waters by Direct Contact Membrane Distillation. International Journal of Environmental Research and Public Health, 2019, 16, 685.	1.2	33
36	Purification of Densonucleosis Virus by Tangential Flow Ultrafiltration. Biotechnology Progress, 2008, 22, 1346-1353.	1.3	32

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37	Evaluation of ultrafiltration membranes for treating poultry processing wastewater. Journal of Water Process Engineering, 2018, 22, 218-226.	2.6	32
38	Controlling external versus internal pore modification of ultrafiltration membranes using surface-initiated AGET-ATRP. Journal of Membrane Science, 2018, 554, 109-116.	4.1	30
39	Novel polymeric solid acid catalysts for cellulose hydrolysis. RSC Advances, 2013, 3, 24280.	1.7	29
40	Fabrication of highly ordered porous membranes of cellulose triacetate on ice substrates using breath figure method. Journal of Polymer Science, Part B: Polymer Physics, 2015, 53, 552-558.	2.4	28
41	Investigation into Micropollutant Removal from Wastewaters by a Membrane Bioreactor. International Journal of Environmental Research and Public Health, 2019, 16, 1363.	1.2	27
42	Reduced graphene oxideâ€“gold nanoparticle membrane for water purification. Separation Science and Technology, 2019, 54, 1079-1085.	1.3	27
43	Zwitterion Co-Polymer PEI-SBMA Nanofiltration Membrane Modified by Fast Second Interfacial Polymerization. Polymers, 2020, 12, 269.	2.0	27
44	Mass Transfer in Blood Oxygenators Using Blood Analogue Fluids. Biotechnology Progress, 2002, 18, 867-873.	1.3	26
45	Investigation on suppression of fouling by magnetically responsive nanofiltration membranes. Separation and Purification Technology, 2018, 205, 94-104.	3.9	26
46	Novel thin-film composite forward osmosis membrane using polyethylenimine and its impact on membrane performance. Separation Science and Technology, 2020, 55, 590-600.	1.3	25
47	Characterization of a Thermoresponsive Chitosan Derivative as a Potential Draw Solute for Forward Osmosis. Environmental Science & Technology, 2016, 50, 11935-11942.	4.6	24
48	High-Performance Polyacrylic Acid-Grafted PVDF Nanofiltration Membrane with Good Antifouling Property for the Textile Industry. Polymers, 2020, 12, 2443.	2.0	24
49	Application of superomniphobic electrospun membrane for treatment of real produced water through membrane distillation. Desalination, 2022, 528, 115602.	4.0	24
50	Removal of Emerging Contaminants from Wastewater Streams Using Membrane Bioreactors: A Review. Membranes, 2022, 12, 60.	1.4	23
51	Polymeric Solid Acid Catalysts for Lignocellulosic Biomass Fractionation. Industrial & Engineering Chemistry Research, 2018, 57, 4514-4525.	1.8	21
52	Polyelectrolyte multilayer modified nanofiltration membranes for the recovery of ionic liquid from dilute aqueous solutions. Journal of Applied Polymer Science, 2017, 134, 45349.	1.3	20
53	Selecting membranes for treating hydraulic fracturing produced waters by membrane distillation. Separation Science and Technology, 2017, 52, 266-275.	1.3	20
54	Magnetically responsive nano filtration membranes for treatment of coal bed methane produced water. Journal of the Taiwan Institute of Chemical Engineers, 2019, 94, 97-108.	2.7	20

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55	Cationic Covalent Organic Framework as an Ion Exchange Material for Efficient Adsorptive Separation of Biomolecules. ACS Applied Materials & Interfaces, 2021, 13, 35019-35025.	4.0	20
56	Localized Heat Generation from Magnetically Responsive Membranes. Industrial & Engineering Chemistry Research, 2016, 55, 9015-9027.	1.8	18
57	A â€œGraft toâ€•Electrospun Zwitterionic Bilayer Membrane for the Separation of Hydraulic Fracturing-Produced Water via Membrane Distillation. Membranes, 2020, 10, 402.	1.4	18
58	Nanofiltration/reverse osmosis for treatment of coproduced waters. Environmental Progress, 2008, 27, 173-179.	0.8	17
59	Surface Oxidation of Ethylenechlorotrifluoroethylene (ECTFE) Membrane for the Treatment of Real Produced Water by Membrane Distillation. International Journal of Environmental Research and Public Health, 2018, 15, 1561.	1.2	17
60	Graphene oxide/nanometal composite membranes for nanofiltration: synthesis, mass transport mechanism, and applications. New Journal of Chemistry, 2019, 43, 2846-2860.	1.4	17
61	Influence of Magnetic Nanoparticles on PISA Preparation of Poly(Methacrylic) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 507 Td (A e1800333.	2.0	16
62	Designing Electric Field Responsive Ultrafiltration Membranes by Controlled Grafting of Poly (Ionic) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	1.2	15
63	The Effects of Salt Type and Salt Concentration on the Performance of Magnetically Activated Nanofiltration Membranes. Industrial & Engineering Chemistry Research, 2017, 56, 1848-1859.	1.8	14
64	Nanofiltration membranes for ionic liquid recovery. Separation Science and Technology, 2017, 52, 2098-2107.	1.3	14
65	Combined Osmotic and Membrane Distillation for Concentration of Anthocyanin from Muscadine Pomace. Journal of Food Science, 2019, 84, 2199-2208.	1.5	14
66	Electrospun Weak Anion-Exchange Fibrous Membranes for Protein Purification. Membranes, 2020, 10, 39.	1.4	14
67	The effects of flux on the clearance of minute virus of mice during constant flux virus filtration. Biotechnology and Bioengineering, 2021, 118, 3511-3521.	1.7	14
68	Enhanced virus removal by flocculation and microfiltration. Biotechnology and Bioprocess Engineering, 2002, 7, 6-9.	1.4	11
69	Membrane-based hydrophobic interaction chromatography. Separation Science and Technology, 2017, 52, 287-298.	1.3	11
70	Singleâ€Step Synthesis of Novel Polyionic Liquids Having Antibacterial Activity and Showing Ï€â€Electron Mediated Selectivity in Separation of Aromatics. ChemistrySelect, 2018, 3, 4959-4968.	0.7	11
71	Cu(I/II) Metalâ€“Organic Frameworks Incorporated Nanofiltration Membranes for Organic Solvent Separation. Membranes, 2020, 10, 313.	1.4	11
72	Atrazine Removal from Municipal Wastewater Using a Membrane Bioreactor. International Journal of Environmental Research and Public Health, 2020, 17, 2567.	1.2	11

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73	Application of Zwitterions in Forward Osmosis: A Short Review. Polymers, 2021, 13, 583.	2.0	11
74	Ion-specificity in protein binding and recovery for the responsive hydrophobic poly(vinylcaprolactam) ligand. RSC Advances, 2017, 7, 36351-36360.	1.7	10
75	The effects of buffer condition on the fouling behavior of MVM virus filtration of an Fcâ€fusion protein. Biotechnology and Bioengineering, 2019, 116, 2621-2631.	1.7	10
76	Evaluation of fouling mechanisms in asymmetric microfiltration membranes using advanced imaging. Journal of Membrane Science, 2014, 465, 1-13.	4.1	9
77	Fouling of microfiltration membranes by biopolymers. Separation Science and Technology, 2016, 51, 1370-1379.	1.3	8
78	The architecture of responsive polymeric ligands on protein binding and recovery. RSC Advances, 2017, 7, 27823-27832.	1.7	8
79	Colloidal deposition on polymer-brush-coated NF membranes. Separation and Purification Technology, 2019, 219, 208-215.	3.9	8
80	Methods for the Assembly and Characterization of Polyelectrolyte Multilayers as Microenvironments to Modulate Human Mesenchymal Stromal Cell Response. ACS Biomaterials Science and Engineering, 2020, 6, 6626-6651.	2.6	8
81	Novel Poly(ionic liquid) Augmented Membranes for Unconventional Aqueous Phase Applications in Fractionation of Dyes and Sugar. Polymers, 2021, 13, 2366.	2.0	7
82	Identification and Characterization of Novel Fc-Binding Heptapeptides from Experiments and Simulations. Polymers, 2018, 10, 778.	2.0	6
83	Surface modified polypropylene membranes for treating hydraulic fracturing produced waters by membrane distillation. Separation Science and Technology, 2019, 54, 2921-2932.	1.3	6
84	Oil Deposition on Polymer Brush-Coated NF Membranes. Membranes, 2019, 9, 168.	1.4	6
85	Tangential-Flow Filtration for Virus Capture. , 0, , 541-555.		4
86	Modeling flux in tangential flow filtration using a reverse asymmetric membrane for Chinese hamster ovary cell clarification. Biotechnology Progress, 2021, 37, e3115.	1.3	4
87	Process- and Product-Related Foulants in Virus Filtration. Bioengineering, 2022, 9, 155.	1.6	4
88	Electrolyte dialysis using charge-mosaic membranes. Desalination and Water Treatment, 2009, 4, 306-310.	1.0	3
89	Modeling tangential flow filtration using reverse asymmetric membranes for bioreactor harvesting. Biotechnology Progress, 2021, 37, e3084.	1.3	3
90	Remote Performance Modulation of Ultrafiltration Membranes by Magnetically and Thermally Responsive Polymer Chains. Membranes, 2021, 11, 340.	1.4	3

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91	High Performance Mixed-Matrix Electrospun Membranes for Ammonium Removal from Wastewaters. Membranes, 2021, 11, 440.	1.4	3
92	Tailoring and Remotely Switching Performance of Ultrafiltration Membranes by Magnetically Responsive Polymer Chains. Membranes, 2020, 10, 219.	1.4	2
93	Retention and Fouling during Nanoparticle Filtration: Implications for Membrane Purification of Biotherapeutics. Membranes, 2022, 12, 299.	1.4	2
94	Hybrid membrane processes for treating oil and gas produced water. , 2021, , 339-369.		1
95	Electrospun Hydrophobic Interaction Chromatography (HIC) Membranes for Protein Purification. Membranes, 2022, 12, 714.	1.4	1
96	Smart PTFE Membrane with Hydrophilicity and pH Sensitivity through MAA-grafting. Polymer-Plastics Technology and Materials, 2019, 58, 47-54.	0.6	0
97	Magnetically Responsive Membranes. , 2015, , 1-5.		0
98	Integrated process technology for recycling and re-use of industrial and municipal wastewater: A review. , 2022, , 49-80.		0